# Center for Inverse Problems, Imaging and Tomography

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This center was created in 1989. The breadth of research underway at this center is devoted to solving imaging problems with diagnostic medical scanning, seismic imaging, sonar and radar. Current projects include: advanced medical ultrasound scanners, geophysical imaging for oil exploration and advanced imaging for buried hazardous waste remediation.

## Overview

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| Current State Contract | $100,000 |
| FY92 Matching Funds | $614,840 |
| Cumulative | $1,342,761 |
| Total Jobs Created | 62 |
| Industry | 36 |
| Center | 26 |
| Direct Center Spin-offs | 2 |
| Total Benefiting Utah Companies | 9 |
| License Agreements | 2 |
| Patents Applied | 2 |
| Patents Issued | 5 |

## Technologies

*Medical Ultrasound imaging

*Bottom and Sub-bottom sonar

*Millimeter wave radar imaging

*Ultrasound non destructive testing

*Geotechnical imaging

*Optical microscope

## Status

*Completing and testing the advanced medical scanner

*Demonstration-prototype development for Millimeter Wave Radar imaging to see through fog

*Completing demonstration prototype work and testing of scanners for detecting buried objects

*Development of proof-of-concept prototype of advanced optical microscope

*Market studies of medical scanners, optical microscopes and application of advanced imaging to hazardous site remidiation.

## Economic Impact

*TechniScan negotiating venture capital to expand operations

*Contract with center, Techniscan and EG&G Idaho, Inc. for imaging of hazardous sites

*$525,000 grant from the National Heart, Lung and Blood Institute for medical scanner testing.

*Awarded a third grant from the Navy for imaging polar sea ice.

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